Abstract of the Disclosure

A method and computer program to manage the load on a packet switched network so that the quality of VoIP transmission does not degrade with the addition of a new VoIP calls. This method and computer program determines the carrying capacity of the communications lines based on the bandwidth and TRAU frames per packet. Further, this method and computer program may determine the state of the network based on round trips times to nodes or computer gateways on the network. In either case calls are admitted only when doing do would not cause the quality of all VoIP calls to degrade.